

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/04176

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N51/00  
 // (A01N51/00, 43:90, 43:80, 43:64, 43:50, 35:08, 35:02, 33:04)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, CAB Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 198814 Derwent Publications Ltd., London, GB; Class A60, AN 1988-096320 XP002265858 & JP 63 048202 A (SANKYO CO LTD) 29 February 1988 (1988-02-29) abstract -----	1,2,5,6
X	WO 93/10105 A (CG CHEMIE GMBH) 27 May 1993 (1993-05-27) page 25, line 1 - line 6 page 26 - page 32 -----	1,5
X	EP 0 072 426 A (SCHERING AG) 23 February 1983 (1983-02-23) page 8 - page 11; tables 1-3 -----	1,2,5,6
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

22 December 2003

Date of mailing of the international search report

16 MAR 2004

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 815 538 A (BASF AG) 24 June 1959 (1959-06-24) cited in the application page 1, line 15 - line 60 table 1 -----	1,2,5,6

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International application No.  
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### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1,5 (in part); 2,6 (complete)

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 5 (in part); 2, 6 (complete)

Use, for killing fungi, of a composition comprising a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and a diluent;

-- a method of killing fungi, which method comprises administering to the fungi a composition comprising a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and a diluent;

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2. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component alcohols; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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3. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component isothiazolones; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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4. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component activated halogen compounds; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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5. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component formaldehyde release compounds, O-formals, N-formals; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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6. claims: 1, 3-5, 7-21 (in part)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component phenolic compounds; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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7. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component aldehydes; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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8. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component acids and esters; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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9. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component biphenyls; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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10. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component urea derivatives; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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11. claims: 1, 3-5, 7-21 (in part)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component O-acetals and/or N-acetals; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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12. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component benzamidines; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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13. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component phthalimides; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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14. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component pyridine derivatives; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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15. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component quaternary ammonium and/or phosphonium compounds; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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16. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbividally active component amines; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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17. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component amphoteric compounds; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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18. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component dithiocarbamates; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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19. claims: 1, 3-5, 7-21 (in part)

A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) as another additional microbicidally active component compounds containing active oxygen; uses, methods and compositions as described in claims 1,3-5, 7-14, 16-21.

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